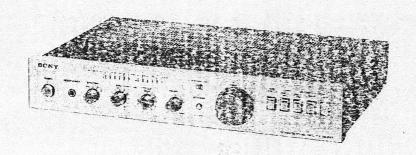


US Model Canadian Model AEP Model UK Model



# INTEGRATED STEREO AMPLIFIER JU



#### **SPECIFICATIONS**

#### **GENERAL**

Power Requirements:

120V ac, 60Hz (US, Canadian model) 220V ac, 50/60Hz (AEP model) 240V ac, 50/60Hz (UK model)

Power Consumption: 85W (US model)

130W (Canadian model) 210W (AEP model) 240W (UK model)

AC Outlets:

Dimensions:

1 switched, 100W (at max.)

(US, Canadian model) 2 unswitched, total 100W (at max.)

Approx. 430(w)x80(h)x335(d)mm 16<sup>7</sup>/<sub>5</sub> (w)x3<sup>1</sup>/<sub>8</sub> (h)x13% (d) inches

including projecting parts and controls

Approx. 4.2 kg (9 lb 4 oz), net Weight:

Approx. 5.3kg (11 lb 11 oz), in shipping carton

#### SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK IN ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT A LA SECURITE

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE A SUR LES DIAGRAMMES SCHE MATIQUES, LES VUES EXPLOSEES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMEROS SONT DONNES DANS CE MANUEL OU DES SUPPLEMENTS PUBLIES PAR SONY

- Continued on page 2 -



### **TA-F40**

#### AMPLIFIER SECTION

**Power Output and Total** 

Harmonic Distortion: (US, Canadian model) With  $8\Omega$  loads, both channels driven, from 20 - 20,000 Hz; rated 50W per channel minimum RMS power, with no more than 0.01% total harmonic distortion from

250mW to rated output.

At 20 - 20,000 Hz

**Continuous RMS Power** 

Output:

(Less than 0.01% THD,  $50W + 50W (8\Omega)$ According to DIN 45500 both channels driven 55W + 55W (8Ω) simultaneously)

(AEP, UK model) Power Bandwidth:

5 - 30,000Hz (AEP, UK model)

(IHF)

Less than 0.01% at rated output Harmonic Distortion: Less than 0.008% at 25W output

Intermodulation (IM)

Distortion: (60Hz: 7 kHz = 4:1)

Less than 0.01% at rated output Less than 0.008% at 25W output

PHONO RIAA equalization curve ±0.2dB Frequency Response:

TUNER)

5 - 70,000Hz +0 dB AUX TAPE

Less than 150 $\mu$ V (8 $\Omega$ , Network A) Residual Noise:

50 (8Ω, 1kHz) Damping Factor:

inputs.				
	Sensitivity	Impedance	Maximum Input Capa- bility (0.003% distortion, 1kHz)	S/N (weight- ing net- work <sub>)</sub>
РНОМО ММ	2,5mV (-50dB)	50kΩ	250mV	88dB(A)
РНОМО МС	0.25mV (70dB)	100Ω	25mV	75dB(A)
TUNER AUX TAPE	150mV (-14.5dB)	50kΩ		100dB(A)

#### Outputs:

	Voltage	Impedance
REC OUT	150mV (-14.5dB)	6kΩ
SPEAKER A, B	Accepts speakers of 8-169	Ω
HEAD- PHONES	Accepts low and high impe	edance headphones

Tone Controls: BASS ± 10dB at 100Hz

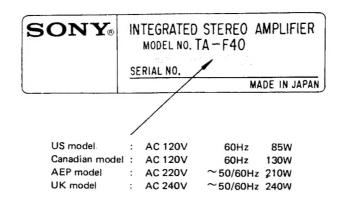
(turnover frequency: 500Hz) TREBLE ± 10dB at 25kHz (turnover frequency: 5kHz)

Loudness: (att. 30dB) +10dB at 100Hz, +3dB at 10kHz

0dB = 0.775V

#### MODEL IDENTIFICATION

#### Specification Label

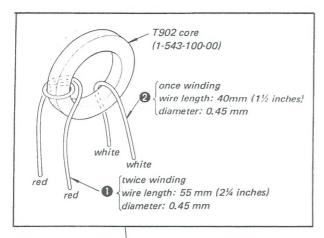


#### **SERVICING NOTES**

## 1. REPLACEMENT OF THE TRANSFORMERS IN THE PULSE POWER SUPPLY CIRCUIT

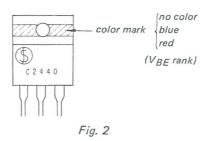
The lead wire arrangement for each of T901 and T902 in the inverter circuit are shown in Fig. 1.

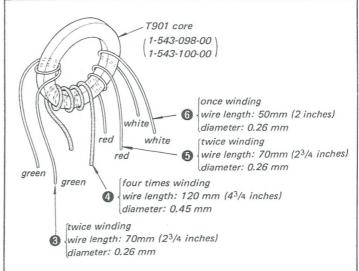
As the repair parts, T901 and T902 are formed by only iron core. Thus, if the coils are defective, arrange a new transformers as shown below. Note that the lead lengths must be exact. Also wind the coil carefully.



#### 2. INVERTER CIRCUIT TRANSISTOR REPLACE-MENT

When replacing Q903 and Q904 in the pulse power supply circuit, use those which have the same  $V_{\rm BE}$  ranks.





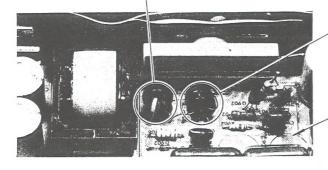
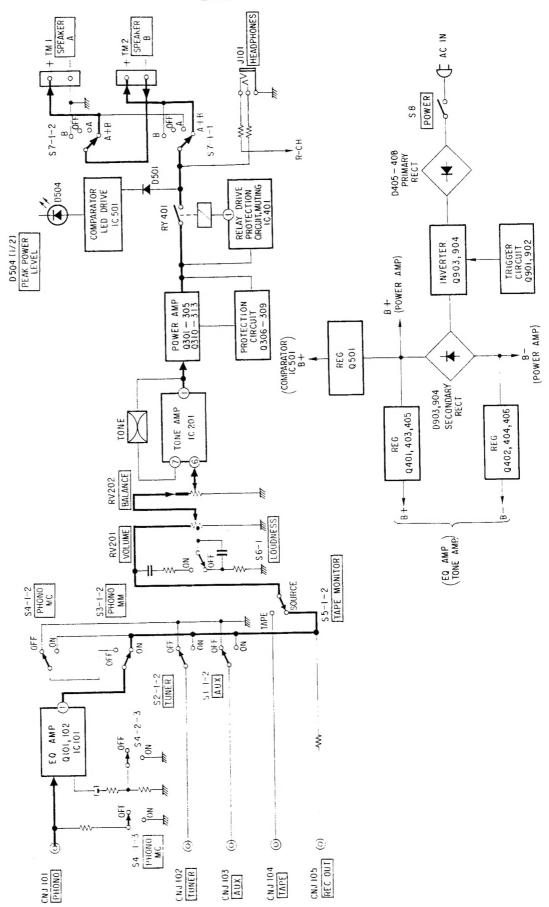
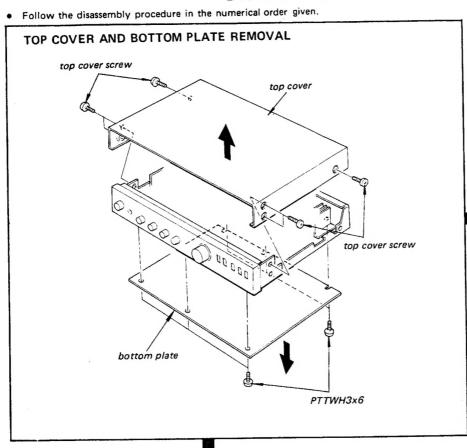


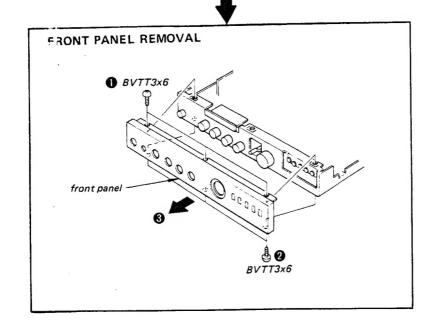
Fig. 1

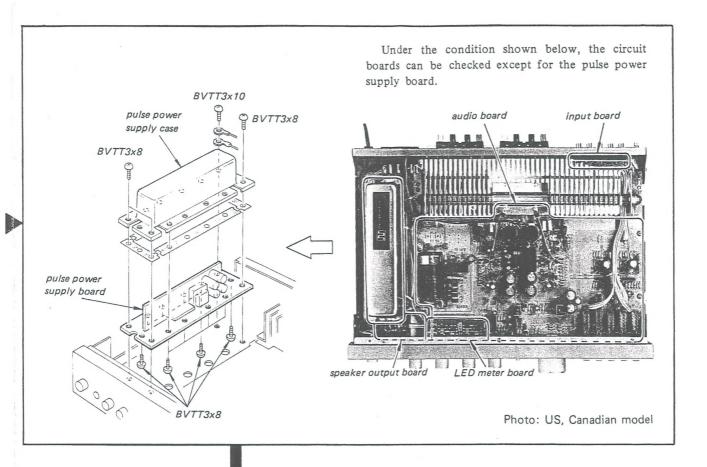
## SECTION 1 BLOCK DIAGRAM



## **SECTION 2** DISASSEMBLY

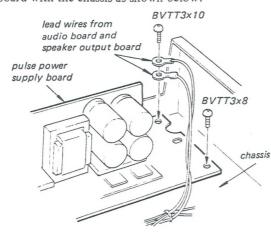






## PULSE POWER SUPPLY BOARD REPAIRING

The negative circuit of the secondary rectifier in the pulse power supply circuit is grounded by the screws in the aluminum diecast case. When checking the pulse power supply board out of the box, use the two lead wires to connect the ground pattern of circuit board with the chassis as shown below.



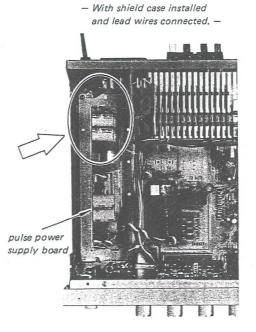
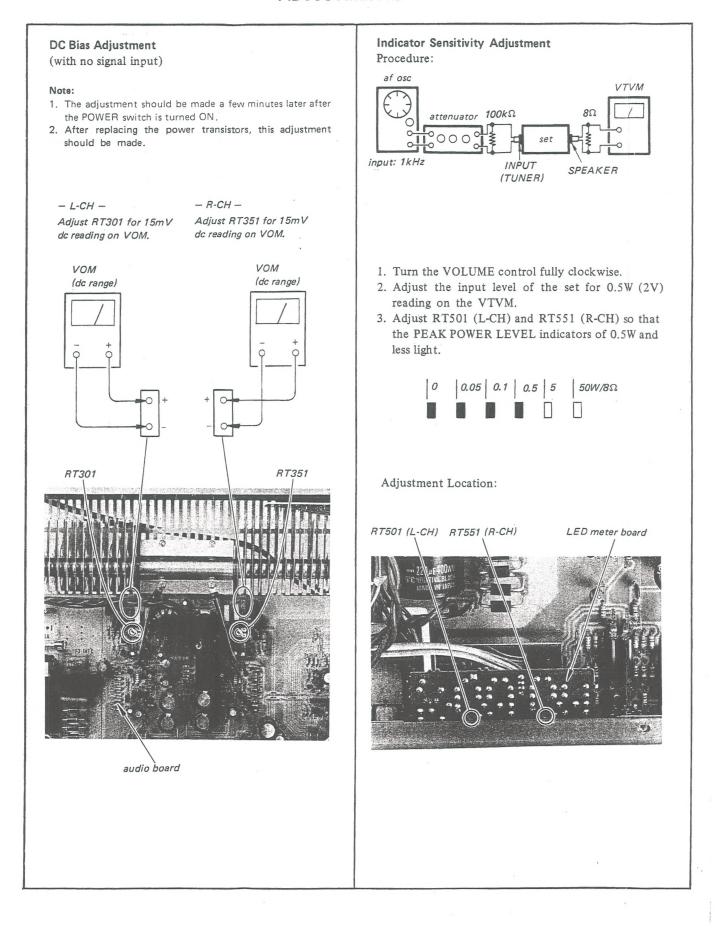
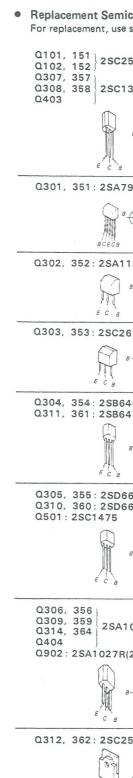


Photo: US, Canadian model

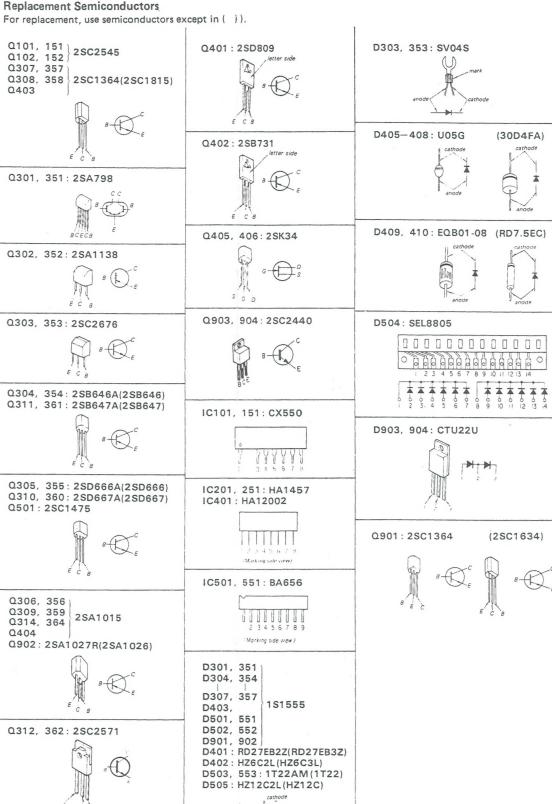
## **SECTION 3 ADJUSTMENTS**



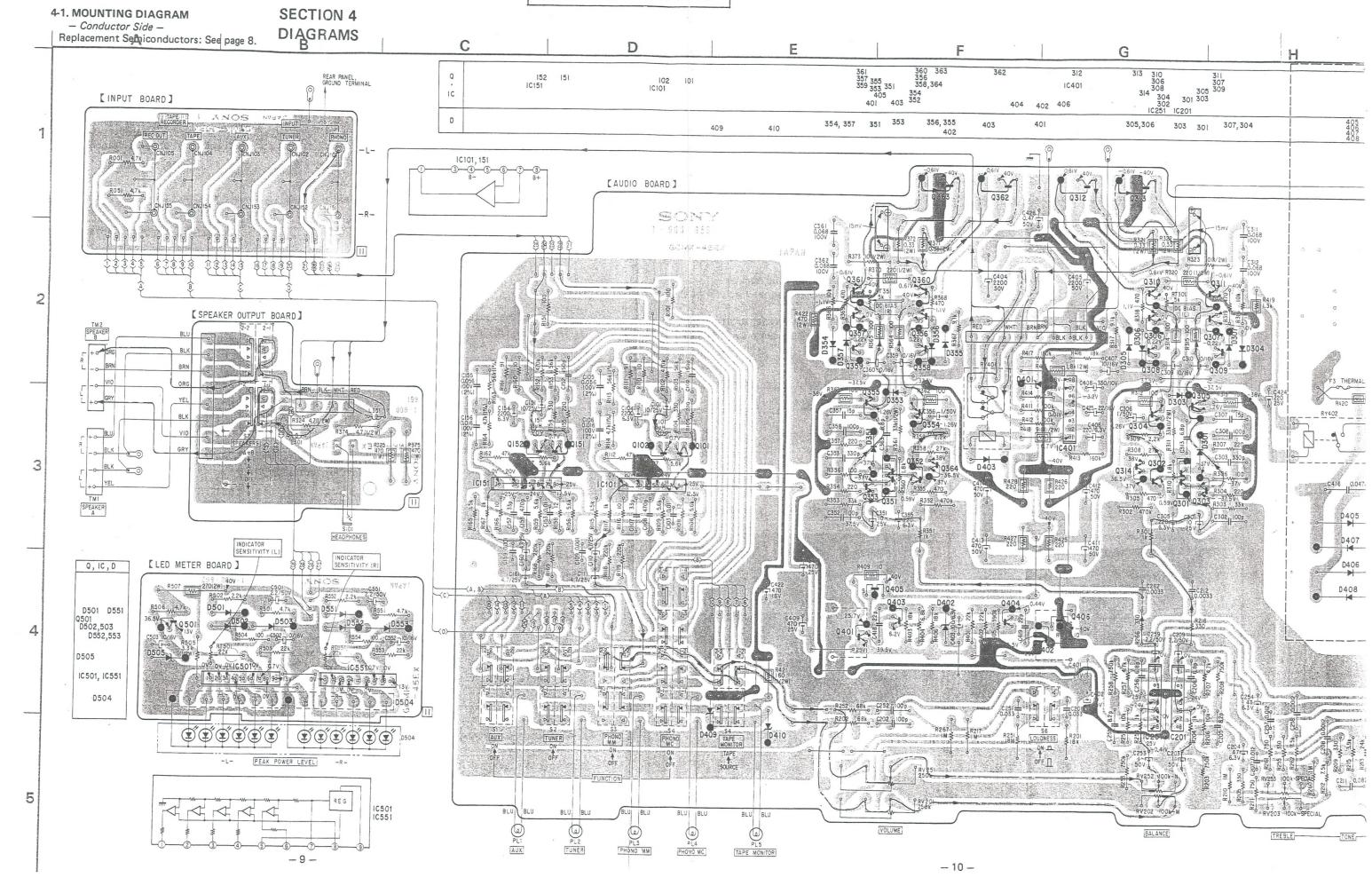
#### Replacement Semiconductors



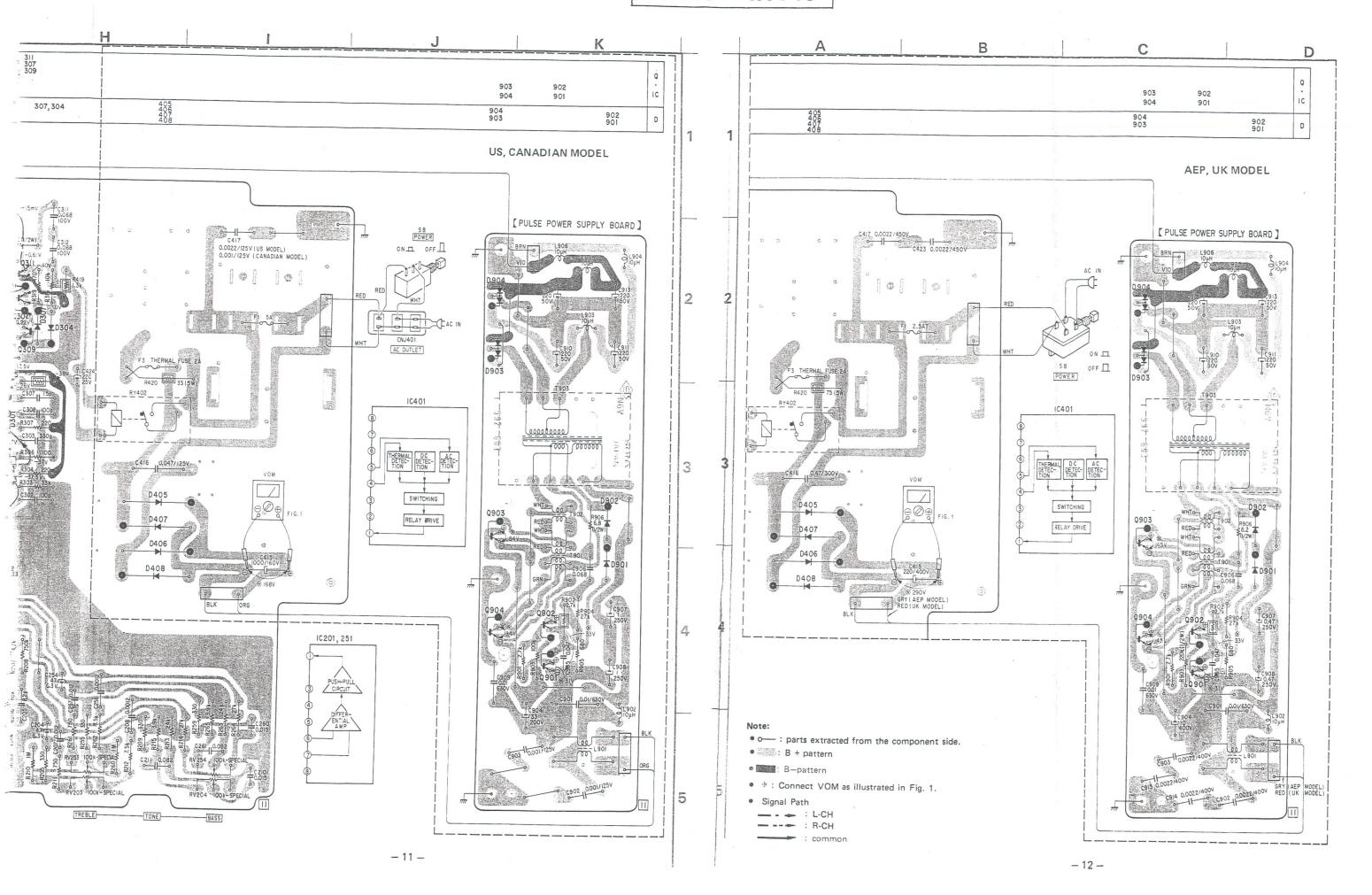
Q313, 363: 2SA1097

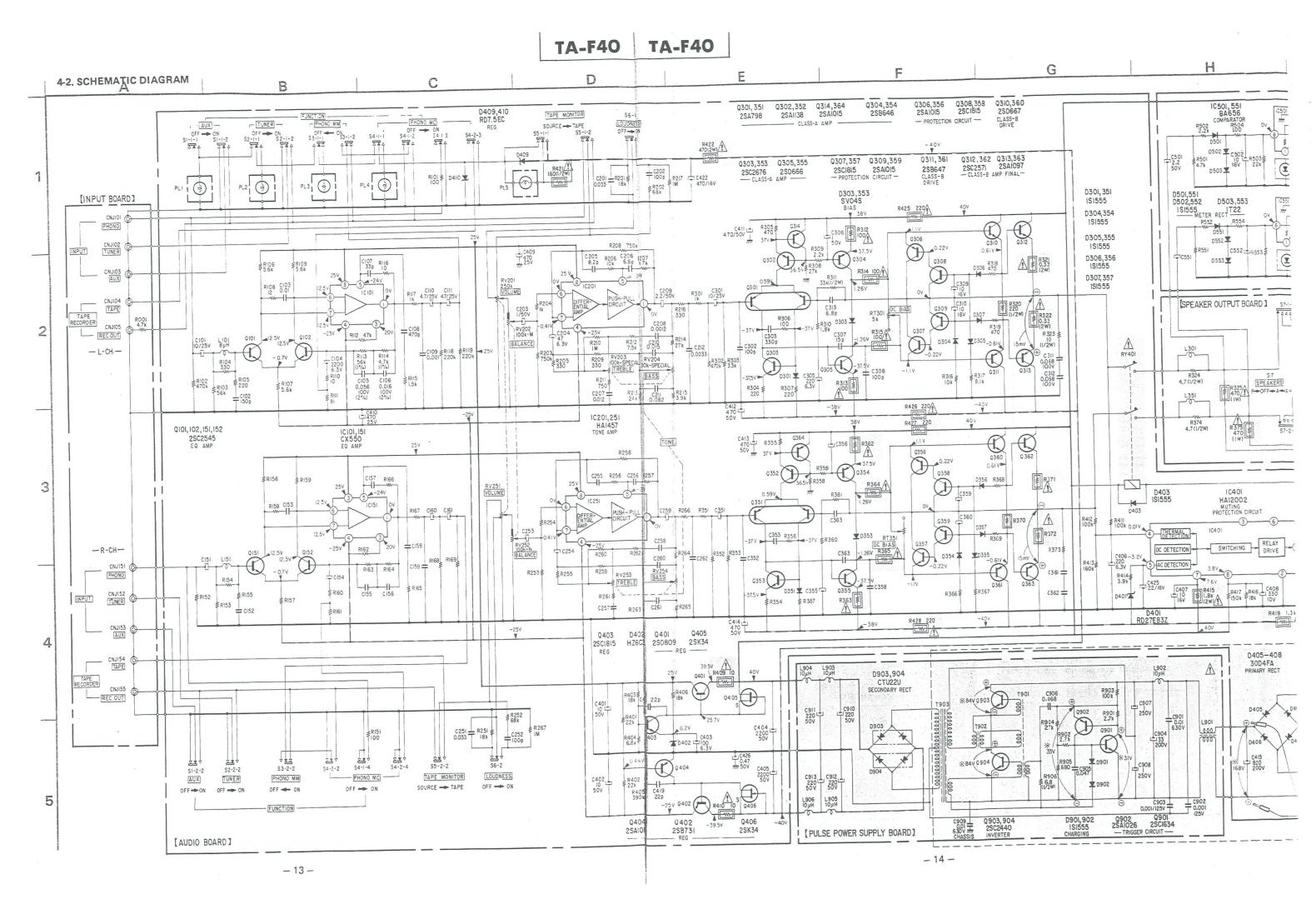


TA-F40 TA-F40



## TA-F40 TA-F40





TA-F40 TA-F40

M

COMPARATOR R504 100 D502 ¥ 2.2 50V D503 X D501,551 D502,552 D503,553 Q501 2SC1475 IS1555 IT22 R554 D505 0552 HZ12C C5521-**(1) (1)** (I) **(1)** -C551 0553 SEL8805 [LED METER BOARD] [SPEAKER OUTPUT BOARD] 4444 SPEAKER A R324 4,7 (1/2 W) TM2 SPEAKERS SPEAKER B -R-R374 4.7 (1/2W) JIOI HEADPHONES IC401 HA12002 MUTING PROTECTION CIRCUIT .CTION TION A. C 423 0.0022 450V D405-408 30D4FA PRIMARY RECT C417 0.0022 450V POWER C417 0.0022 125V \* 0903 () FI 2.5AT 0405-408 (US MODEL) 30D4FA 1 PRIMARY RECT 0.001 (C CANADIAN MODEL) RY402 POWER \* 145V 0904 0 CNJ40I AC OUTLET 2SCI634 25C2440 AEP , UK MODEL

Note: The components identified by shading and mark

A are critical for safety. Replace only with
part number specified.

Note: Les composants identifiés par un tramé et une marque Asont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Components for right channel have same values as for lef channel. Reference numbers are coded from 151, 251, 35
- All capacitors are in  $\mu F$  unless otherwise noted. pF:  $\mu \mu$  50 WV or less are not indicated except for electrolytics.
- All resistors are in ohms,  ${}^4W$  unless otherwise noted.  $k\Omega$ : 1000 $\Omega$ ,  $M\Omega$ : 1000  $k\Omega$ .
- All variable and adjustable resistors have characteristic curv
   B, unless otherwise noted.
- inonflammable resistor.
- 1% or 2% indicates component tolerance.

• panel designation

• adjustment for repair

• ---: B + bus.

• ---: B-bus.

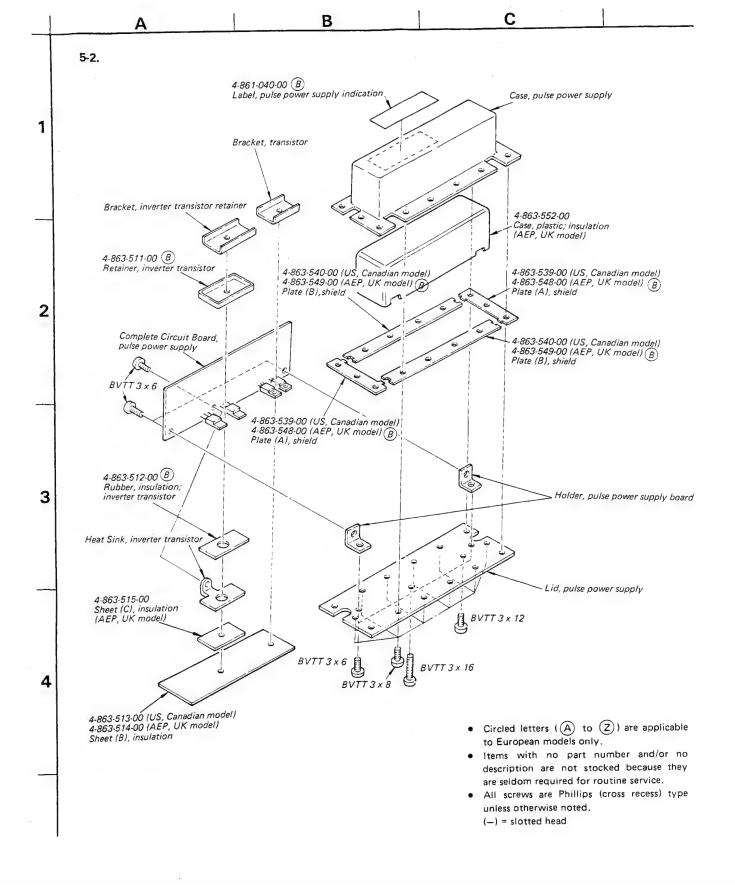
- #: Connect VOM as illustrated in Fig. 1.
- Voltages are dc with respect to ground unless otherwis noted.
- Readings are taken under no signal conditions with a V0 (20 k $\Omega$ /V).
- Voltage variations may be noted due to normal production tolerances.

#### Switch

Ref. No.	Switch	Position
S1-1-1, 2 S1-2-2	AUX	OFF
S-2-1-1, 2 S-2-2-2	TUNER	OFF
S3-1-1, 2 S3-2-2	PHONO MM	ON
S4-1-1 to 4 S4-2-2 to 4	PHONO MC	OFF
S5-1-1, 2 S5-2-2	TAPE MONITOR	SOURCE
S6-1, 2	LOUDNESS	OFF
S7-1-1, 2 S7-2-1, 2	SPEAKERS	A + B
S8	POWER	OFF

US, CANADIAN MODEL

C902 0.001 125V 5



Note: The components identified by shading and mark

part number specified.

spécifié.

5

n are critical for safety. Replace only with

- Circled letters (A) to Z) are applicable to European models only.
- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.

### **SECTION 6 ELECTRICAL PARTS LIST**

• Circled letters ( A to Z ) are applicable to Europear models only.

> Coil, line filter (US, Canadian model) E Coil, line filter (AEP, UK model)

100V polyethylene (2%)

100V polyethylene (2%)

					models only.		
_	Ref. No.	Part No.	Description	Ref. No.	Part No.		Description
		SEMICONDUC	TORS	D304, 3:	· ) 8-719-815-55	® 1S1555	5
		Transistor	s	⇒D401	8-719-127-25	® RD27E	EB2Z
	Q101, 151	8-729-354-52	E 2SC2545	⇒ D402	8-719-910-68	B HZ6C2	L
	Q102, 152	0-129-334-32	© 25C2545	D403	8-719-815-55	_	5
	Q301, 351	8-729-679-82	B 2SA798	⇒D405-4	08∕18-719-911-55	B U05G	
	Q302, 352	8-729-113-82	B 2SA1138	⇒D409, 4	10 8-719-931-08	B EQB01	-08
	Q303, 353	8-729-167-62	B 2SC2676				
				D501, 5	51 . ) 8-719-815-55	B 1S1555	ξ.
⇒	Q304, 354	8-729-304-62	B 2SB646A	D502, 5	52	<b>D</b> 131333	,
⇒	Q305, 355	8-729-300-62	B 2SD666A	⇒D503, 5	53 8-719-422-21	B 1T22A	M
	Q306, 356	8-729-201-52	B 2SA1015	D504	8-719-388-05	H SEL88	05
	Q307, 357	0.730.663.47	@ 25C1264	⇒D505	8-719-910-28	B HZ12C	2L
	Q308, 358	8-729-663-47	© 2SC1364				
					02 🐴 8-719-815-55		5
	Q309, 359	8-729-201-52	B 2SA1015	D903, 90	04 📤 8-719-300-22	© CTU22	U in the second
⇒	Q310, 360	8-729-306-72	B 2SD667A				
$\Rightarrow$	Q311, 361	8-729-300-72	B 2SB647A		COILS A	ND TRANSFO	DRMERS
	Q312, 362	8-729-371-22	© 2SC2571				
	Q313, 363	8-729-397-22	① 2SA1097	L101, 15		_	nductor, 8µH
				L901	<b>⚠</b> 1-421-328-11	Coil, li	ne filter
	Q314, 364	8-729-201-52	B 2SA1015		· A	-	anadian model)
	Q401	8-729-180-93	B 2SD809	L901	1-421-340-00		ne filter (AEP, UK mo
	Q402	8-729-173-13	B 2SB731	L902-9	061-421-329-00	B Coil, cl	noke
⇒	·Q403	8-729-663-47	© 2SC1364		<b>A</b>	_	
	Q404	8-729-201-52	B 2SA1015	T901	△1-543-098-00	_	
				T902	1-543-100-00	-	
	Q405, 406	8-729-634-03	B 2SK34	T903	<b>△</b> 1-446-363-00	Transfo	ormer, converter
	Q501	8-760-413-10	B 2SC1475		٨	_	ınadian model)
⇒	Q901 🛭	8-729-663-47	© 2SC1364	T903	<b>⚠1-446-364-00</b>	K Transfo	ormer, converter
$\Rightarrow$	·Q902 🛭	8-729-612-77	B 2SA1027R			(AEP, I	JK model)
	Q903, 904 Z	<u>1</u> 8-729-924-40	F 2SC2440				
						CAPACITORS	
		ICs					
				1			nic unless otherwise
	IC101, 151	8-759-305-50	① CX550	1			idicated except for
	IC201, 251	8-759-314-57	© HA1457	ele	ectrolytics. p: μμ	F, elect : elect	trolytic
	IC401	8-759-320-02	D HA12002	C101, 15	1 1-123-329-00	B 10	25V elect
	IC501, 551	8-759-965-60	D BA656	C102, 15		Ξ	23 V elect
				C102, 13		_	سماييس
		Diodes		C103, 13		=	mylar
				C104, 15		Ξ	6.3V elect
	D301, 351	8-719-815-55	B 1S1555	(105, 15	J 1-150-120-00	(P) 0.020	100V polyethylene
	D303, 353	8-719-300-11	® SV04S	C106, 15	6 1-130-125-00	® 0.016	106V naturathylan
				C106, 15		_	100V polyethylene
				(107, 15	7 1-161-265-00	(A) 33p	

ullet  $\Rightarrow$  : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

	A B	C
	5-3.	
		4-863-534-00 (L) Heat Sink
	4	
1		
	3-701-948-18 (A) Label, indication; fuse capacity	
	(AEP, UK model)	
1	(US, Canadian model) Fuse, 5A (F1)	
$\dashv$	1-532-286-00 <sup>®</sup> <u>↑</u> (AEP, UK model)	
	Fuse, 2. 5AT (F1)	
	Plate, grounding; electrolytic capacitor	1-532-556-00 B Fuse, thermal; 2A (F3)
	3-703-044-24 Label, caution; fuse replacement (US, Canadian model)	
2	100, curiadian modeli	4.863.521.00 B Sheet, insulation
	Band, electrolytic capacitor	
	Plate, shield	
	1-226-214-00 (D) Resistor, variable; 100kΩ-special/special	Heat Sink, transistor
	BASS (RV204, 254) 1-226-213-00 D	
3	Resistor, variable; 100kΩ-special/special	
1	TREBLE (RV203, 253)  1-226-215-00 ©  Resistor, variab	16:
	Resistor, variable; 100kΩ-M/N; 250kΩ-B/B; BALANCE (RV202, 252) VOLUME (RV2	201 251)
	X-4861-001-0 (B) 1-552-932-00 (B)	Complete Circuit Board, audio
	Pushbutton Ass'y, LOUDNESS Switch, pushbutton; LOUDNESS (S6)	Switch, pushbutton; FUNCTION, TAPE MONITOR
		(\$1-5)
	Note: The components identified by shading and r	
	↑ are critical for safety. Replace only part number specified.	Circled letters (A) to (2) are applicab
ļ.	### 100 Per 10	to European models only.  • Items with no part number and/or r
	Note: Les composants identifies par un trame et	t une description are not stocked because the
	marque À sont critiques pour la sécurité. N	mero • All screws are Phillips (cross recess) type

remplacer que par une pièce portant le numéro

specifié.

• All screws are Phillips (cross recess) type

unless otherwise noted.

(-) = slotted head

• Circled letters ( (A) to (Z) ) are applicable to European models only.

Ref. No.	Part No.		Descript	ion	Ref. No.	Part No.	_1	Description
C108, 158	1-161-319-00	A 470p			C415	<u></u> <b>1</b> -123-407-00	<b>(H)</b> 220	400V elect
C109, 159	1-108-227-00	(A) 0.001		mylar				(AEP, UK model)
C110, 160		•			C416	<b>⚠</b> 1-108-749-00	0.047	125V mylar
C111, 161	) 1-123-328-00	B 4.7	25V	elect				(US, Canadian model)
0111, 101					C416	<b>⚠</b> 1-130-342-00	© 0.47	300V film
								(AEP, UK model)
C201, 251	1-108-244-00	(A) 0.033		mylar	C417	<b>⚠</b> 1-161-515-00	0.0022	125V (US model)
C202, 252	1-161-271-00	(A) 100p						
C203, 253	1-123-352-00	B 1	50V	elect	C417	<b>⚠</b> 1-161-502-00	0.001	125V (Canadian model)
C204, 254	1-123-294-00	B 47	6.3V	elect	C417	<b>⚠</b> 1-161-734-00	B 0.0022	450V (AEP, UK model)
,					C418, 419		A 22p	
C205, 255	1-161-258-00	(A) 8.2p			C422	1-123-323-00	B 470	16V elect
C206, 256	1-161-257-00	(A) 6.8p			C423	<b>⚠</b> 1-161-734-00	® 0.0022	450V (AEP, UK model)
C207, 257	1-108-357-00	(A) 0.012		mylar				
C208, 258	1-161-324-00	(A) 0.0012			C424	1-123-334-00	B 220	25V elect
C209, 259	1-123-353-00	B 2.2	50V	elect	C425	1-123-317-00	B 22	16V elect
•		0			C426	1-123-351-00	B 0.47	50V elect
C210, 260	1-108-240-00	(A) 0.015		mylar	C501, 55		B 2.2	50V elect
C211, 261	1-108-362-00	B 0.082		mylar	C502, 55	2 ) 1-123-316-00	<b>B</b> 10	16V elect
C212, 262	1-108-232-00	(A) 0.0033		mylar	C503	, 1125 516 66		
C301, 351	1-123-329-00	® 10	25V	elect		٨		
C302, 352	1-161-271-00	(A) 100p			C901	1-130-141-00	B 0.01	630V polyethylene
						3 1-161-516-00	0.001	125V (US model)
C303, 353	1-161-317-00	A 330p				3 1-161-502-00	0.001	125V (Canadian model)
C305, 355	1-123-296-00	B 220	6.3V	elect	1	3 1-161-734-00	B 0.0022	400V (AEP, UK model)
C306, 356	1-123-352-00	<b>®</b> 1	50V	elect	C904	<u>1</u> 1-123-565-00	33	200V elect
C307, 357	1-161-261-00	A 15p						(US, Canadian model)
C308, 358	1-161-271-00	<b>(A)</b> 100p				Δ	O	10011
					C904	<b>⚠</b> 1-123-290-00	<b>(H)</b> 10	400V elect
C309, 359	) 1-123-316-00	<b>B</b> 10	16V	elect		A	0.045	(AEP, UK model)
C310, 360	) 1-123-316-00	<b>B</b> 10	10 1	Olocc C	C905	1-108-246-00	(A) 0.047	mylar
C311, 361	) 1-130-317-00	® 0.068	1000	polyethylene	C906	1-108-249-00	(A) 0.068	mylar 250V solid aluminum
C312, 362	) 1-130-317-00	_	100 .	Pari cari ress	C907, 90	8 1-130-357-00	1	(US, Canadian model)
C313, 363	1-161-257-00	(A) 6.8p			5005.00	8 1-130-356-00	0.47	250V solid aluminum
C401, 402	1-123-356-00	A 10	50V	elect	C907, 90	18 <u>/1</u> / 1-130-336-00	0.47	(AEP, UK model)
C403	1-123-295-00	B 100	6.3V	elect				(ALI, GR model)
C404, 405	1-123-256-00	<b>E</b> 2200	50V	elect	C909	<u>1-130-141-00</u>	(B) 0.01	630V polyethylene
						13 1-123-361-00	_	50V elect
C406	1-123-296-00	B 220		elect		5 1-161-734-00	B 0.0022	400V (AEP, UK model)
C407	1-123-316-00	<b>B</b> 10		elect	(914, 91	.3 2:21-101-734-00	(B) 0.0022	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
C408	1-123-309-00	B 330	10V					
C409, 410		B 470	25V					
C411-414	1-123-363-00	© 470	50V	elect				
C415	<u></u> 1-123-408-00	820	2001	/ elect				
			(US,	Canadian model)				

Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.		Descripti	ion	Ref. No.
	RESI	STORS			R903
All r	esistors are in ohm	s. Common 3	4W carbo	on resistors	R903
	omitted. Refer to numbers.	the list on th	e last pa	ge for then	R904
	$1000\Omega$ , $M\Omega$ : $100$	$0.0$ k $\Omega$			R905
K32 .	100010, 11110				K)05
R113, 163	1-214-771-00	A 56k	1/4W	metal oxide (1%)	R906
R114, 164	1-214-745-00	(A) 4.7k	¼W	metal oxide (1%)	
R311, 361	1-244-909-00	(A) 33k	½W	carbon	R906
R312, 362,	A . 245 105 00	(A) 100	1/4W	carbon	
R315, 365	1-247-107-00	(A) 100	74 VV	(nonflammable)	RT301, 3
					RT501, 5
R320, 370	<u>1-247-224-00</u>	A 220	½W	carbon	
				(nonflammable)	RV201,
R321, 371	1-207-615-00	(A) 0.33	2W	metal plate	
R322, 372	<u>//:</u> \1-20/-015-00	(A) 0.55	2	(nonflammable)	RV202,
R323, 373		A 10	1/2W	carbon	RV203,
R324, 374		A 4.7	½W	carbon	
R325, 375	<u>1-213-139-00</u>	A 470	1W	metal oxide	RV204,
				(nontlammable)	
	A	O 10	1/4W	carbon	
R409, 410	1-247-083-00	A 10	74 W	(nonflammable)	
D416	<u>1-206-670-00</u>	(A) 1.8k	2W	metal oxide	01 5
R415	<u>/!\</u> 1-206-670-00	A) 1.0K	211	(nonflammable)	S1-5
R418	<u>^</u> 1-247-239-00	(A) 910	1/2W	carbon	S6
K418	7:31-247-239-00	710	,	(nonflammable)	S6 S7
R419	<u>^</u> 1-247-134-00	(A) 1.3k	1/4W	carbon	S8
10417	<u></u>	0		(nonflammable)	50
D.420	<b>↑</b> 1-205-598-00	33	5W	wirewound	S8
R420	<u>/1</u> \1-205-596-00	33	311	(nonflammable)	
			0	US, Canadian model)	
R420	<u>1-205-599-00</u>	75	5W	wirewound	
1420	7.71-203-377-00	, -		(nonflammable)	
				(AEP, UK model)	CNJ101
					CNJ103
R421	<u>↑</u> 1-247-221-00	<b>B</b> 160	⅓W	carbon	CNJ104
				(nonflammable)	CNJ10
		_			CNJ40
R422	<u>1-206-656-00</u>	A 470	2W	metal oxide	
	٨			(nonflammable)	F1
R425-42	281-247-115-00	A 220	1/4W		F1
		( ) a a !	1/33/	(nonflammable)	F2
R505	1-244-885-00	_	½W 2W		F3
R507	<u> </u>	A 270	2W	(nonflammable)	
P001	<u>^</u> 1-246-483-00	(A) 2.7k	1/4W	•	
R901	<u>/!\1-240-483-00</u>	(A) 2.7K	/4 17	ÇALOON	
R902	<b></b>	(A) 2.7k	1/4W	carbon	
, 02	<u></u> 1.1200			(nonflammable)	
					1

Note: The components identified by shading and mark

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 Circled letters ( A to Z ) are applicable to European models only.

Part No.

Description

	R903	<u>1-246-521-00</u>	100k	¼W carbon (US, Canadian model)
	R903	<u>^</u> 1-244-929-00	(A) 220k	½W carbon (AEP, UK model)
	R904	<u>1-246-507-00</u>	(A) 27k	1/4W carbon
	R905	1-246-469-00	(A) 680	1/4W carbon
	1000	<u></u> 1210 101	0	
	R906	<u>1-244-821-00</u>	6.8	½W carbon (US, Canadian model)
	R906	<u>1-244-823-00</u>	A 8.2	½W carbon (AEP, UK model)
1	RT301,	351 1-226-235-00	(A) 5k-B, ad	ljustable; DC bias
	RT501,			adjustable; indicator
l	KIDOI,		sensitivi	
	RV201,	251 1-226-579-00	(E) 250k-B	/B, variable; VOLUME
	RV202	252 1-226-215-00	© 100k-M	I/N, variable; BALANCE
		253 1-226-213-00		pecial/special, variable;
l	1(1200)		TREBL	E
	RV204.	254 1-226-214-00	D 100k-sp	pecial/special, variable;
	,		BASS	
			SWITCHES	
Ì			0	CANACTION
	S1-5	1-552-933-00	TAPE	ntton, FUNCTION, MONITOR
	<b>S</b> 6	1-552-932-00		itton, LOUDNESS
	S7	1-552-851-00		-slide, SPEAKERS
	S8	<u>1-552-530-00</u>		itton, POWER
				anadian model)
	S8	<u>1-552-992-00</u>	_	utton, POWER UK model)
)				
		Mi	SCELLANEC	DUS
				*********
	CNJ10		(E) Jack,	6p phono; PHONO,
	CNJ10	3, 153	TUNE	ER, AUX
1	CNJ10	04, 154 05, 155 05, 155	E OUT	4p phono; TAPE, REC
-	CNJ10	05, 155	OUT	+ 2- ACOUTLET
	CNJ40	1-526-574-00		t, 3p; AC OUTLET Canadian model)
		<b>∆</b> 1-532-272-X		5A (US, Canadian model)
	F1	1-532-272-X		2.5AT (AEP, UK model)
	F1	<u>/1\1-532-286-00</u>	b) Fuse,	2.5AT (ALI, OIL MODE)
	F3	<u>^</u> 1-532-556-00	B Fuse,	thermal; 2A
				, ver
1			ممائلات مائلات	nar un trame et une

Note: Les composants identifiés par un trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.		Description
J101	1-507-561-00	©	Jack, HEADPHONES
PL1-5	1-518-340-71	B	Pilot Lamp, 8V 50mA; FUNCTION, TAPE MONITOR
RY401	₫1-515-348-00	E	Relay
RY402	<b>1-515-347-00</b>	F	Relay
TM1, 2	1-536-571-00	©	Plate, 4p terminal; SPEAKER
			A, B
	<b>⚠</b> 1-517-072-00		Holder, fuse (US, Canadian model)
n.	<b>⚠</b> 1-533-131-00	A	Holder, fuse (AEP, UK model)
	<b>1-534-777-41</b>	<b>D</b>	Cord, power (UK model)
	<b>1-534-817-XX</b>	D	Cord, power (AEP model)
	<b>1-534-986-XX</b>		Cord, power
			(US, Canadiar-model)

 Circled letters ( A to Z ) are applicable to European models only.

ACCESSO	ACCESSORIES AND PACKING MATERIALS						
Part No.	Description						
3-701-630-00 3-770-869-11 3-770-869-21 3-770-869-21 3-794-479-31	A Bag, plastic; instruction manual     Manual, instruction (AEP, UK model)     Manual, instruction (US model)  Manual, instruction (Canadian model)						
3-794-233-21 4-863-541-00 4-863-543-00 4-891-037-00	Sheet, consumer products (US model)  D Carton C Cushion B Bag, plastic; set						

Note: The components identified by shading and mark

A are critical for safety. Replace only with part number specified.

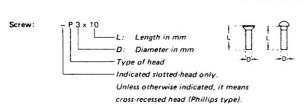
Note: Les composants identifiés par un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

#### 1/4 WATT CARBON RESISTORS ®

Note: Circled letter (A) is applicable to European models only.

											Duropean n		,
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00		1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00		1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00			13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00		1-246-577-00	15k	1-246-501-00				
1.3	1 240 400 00	10	1 210 120 00	100	1 240 400 00	1.04	1 210 011 00						
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
													1 044 755 00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00		1-246-583-00	27k	1-246-507-00	270k		1	
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	1	1-246-584-00	30k	1-246-508-00	300k			1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	S .	1-246-585-00	33k	1-246-509-00	330k	1 -246 -533 -00		1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1 246 -534 -00		1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4 31	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1 246 417 -00	47	1-246 441 00	470			1-246-489-00	47k	1-246 513 00	470k		1	1 244 761 00
5.1	1-246-418-00	51	1-246-442-00			1	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762 00
5.6		56	1-246-443-00		1-246-467-00	H	1-246-491-00		1-246-515-00	560k			
6.2		62	1-246-444-00	620	1-246-468-00	H	1-246-492-00	62k	1-246-516-00		1-246-540-00		
0.2	1-240-420-00	02	1-240-444-00	020	1 240 400 00	0.24	1 240 432 00	July	1 210 010 00				
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		1
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		1
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		Ī
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00	1	
						<u> </u>	<u> </u>			<u> </u>		N I	:

#### HARDWARE NOMENCLATURE



Reference Designation Shape		Description	Remarks
		SCREWS	
Р	₽	pan-head screw	binding-head (B) screw for replacement
PWH	₹13	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP	853	pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment
PSW PSPW	elktp	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R	₽	round-head screw	binding-head (B) screw for replacement
К	Þ	flat-countersunk-head screw	
RK	Ð	oval-countersunk-head screw	
В	₽	binding-head screw	
Ť	<b>(</b>	truss-head screw	binding-head (B) screw for replacement
F	₽⊃	flat-fillister-head screw	
RF	₽	fillister-head screw	
BV .	<b>€</b> ⊅	braizer-head screw	

Nut, Washer,	Retaining ring:
	N 3
	Diameter of usable screw or shaft
	Reference designation

Reference Designation	Shape	Description	Remarks
		SELF-TAPPING SCRE	ws
TA		self-tapping screw	ex: TA, P3 x 10
PTP	=	pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement
PTPWH	<b>=</b>	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement
PTTWH	<b>(</b>	pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
		SET SCREWS	
SC ··		set screw	
SC	<b>⊕€</b> ∃	hexagon-socket set screw	ex: SC 2 6 x 4, hexagon socket
		NUT	
N	-[]-@	nut	
		WASHERS	
W	0	flat washer	
SW	<b>-⊚</b> • <b>∮</b>	spring washer	
LW	0	internal-tooth lock washer	ex: LW3, internal
LW	<b>©</b>	external-tooth lock washer	ex: LW3, external
		RETAINING RINGS	
E	0	retaining ring	7
G	ଜ	grip-type retaining ring	

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